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**Antoine Y Song\*** ([aysong@math.princeton.edu](mailto:aysong@math.princeton.edu)). *Existence of infinitely many minimal hypersurfaces in closed manifolds.*

In the early 80's, Yau conjectured that in any closed 3-manifold there should be infinitely many minimal surfaces. After reviewing previous contributions on the question, I will present a solution of the conjecture, which builds on min-max methods developed by F. C. Marques and A. Neves. I will also touch upon the non-compact case. (Received January 25, 2019)